



SEQUENCE LISTING

<110> Takeda Pharmaceutical Company Limited
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HIKICHI, Yukiko
UNO, Yumiko

<120> Novel Protein and DNA Thereof

<130> 2007_0367

<140> 10/506,308

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<150> JP 2002-061133

<151> 2002-03-06

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Ser Glu Phe Glu Glu Gly Ser Tyr Gly Trp Arg Asn Phe His Pro Gln
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Cys Leu Gln Arg Cys Asn Thr Pro Gly Gly Phe Leu Leu His Tyr Cys
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aagccccagg	agccccagaa	gtcaccagag	ccatctctgc	cttcagcccc	tcccaatgtc	420
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Glu Gly

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<213> Mus musculus

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<213> Rattus norvegicus

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2160
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Lys	Ser	Ser	Leu ₂₆₀	Tyr	Ile	Gly	Ile	Gly ₂₆₅	Tyr	Ser	Met	Ser	Ile ₂₇₀	Leu	Gly
Pro	Ala	Ile ₂₇₅	Gly	Tyr	Val	Leu	Gly ₂₈₀	Gly	Gln	Leu	Leu	Thr ₂₈₅	Met	Tyr	Ile
Asp	Val ₂₉₀	Ala	Met	Gly	Gln	Ser ₂₉₅	Ser	Asp	Leu	Thr	Glu ₃₀₀	Asp	Asp	Pro	Arg
Trp ₃₀₅	Leu	Gly	Ala	Trp	Trp ₃₁₀	Ile	Gly	Phe	Leu	Leu ₃₁₅	Ala	Trp	Leu	Phe	Ala ₃₂₀
Trp	Ser	Leu	Ile	Met ₃₂₅	Pro	Phe	Ser	Cys	Phe ₃₃₀	Pro	Lys	His	Leu	Pro ₃₃₅	Gly
Thr	Ala	Lys	Ile ₃₄₀	Gln	Ala	Gly	Lys	Thr ₃₄₅	Ser	Gln	Thr	His	Gln ₃₅₀	Asn	Asn
Ser	Thr	Ser ₃₅₅	Phe	Gln	His	Met	Asp ₃₆₀	Glu	Asn	Phe	Gly	Lys ₃₆₅	Ser	Ile	Lys
Asp	Phe ₃₇₀	Pro	Thr	Ala	Val	Lys ₃₇₅	Asn	Leu	Met	Arg	Asn ₃₈₀	Thr	Val	Phe	Ile
Cys ₃₈₅	Leu	Val	Leu	Ser	Thr ₃₉₀	Thr	Ser	Glu	Ala	Leu ₃₉₅	Val	Thr	Thr	Gly	Phe ₄₀₀
Ala	Thr	Phe	Leu	Pro ₄₀₅	Lys	Phe	Ile	Glu	Asn ₄₁₀	Gln	Phe	Gly	Leu	Thr ₄₁₅	Ser
Ser	Phe	Ala	Ala ₄₂₀	Thr	Leu	Gly	Gly	Ala ₄₂₅	Val	Leu	Ile	Pro	Gly ₄₃₀	Ala	Ala

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 Val Thr Cys Lys Val Ile Thr Ile Phe Phe Asn Gly Leu Ala Ile Val
 675 680 685
 Leu Tyr Lys Pro Pro Pro Pro Gly Thr Glu Val Ser Phe Gln Ser Gln
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<211> 484

<212> DNA

<213> Rattus norvegicus

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<211> 704

<212> DNA

<213> Rattus norvegicus

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ggcctgatata	catcgagcta	cgacatctcc	ttttgcgtgt	tgtctctgtt	tgtgtctttc	480
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tatatcggtg	ttggctattc	tatgtcaatc	ctaggcccag	ccattggcta	tgtgttggga	840
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gatgatcccc	ggtggttggg	ggcttgggtg	attggattcc	ttttagcttg	gctctttgct	960
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caagctggca	aaacttccca	gactcatcaa	aataatagta	cttccttcca	acatatggat	1080
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gccacgtttt	tacctaattt	tatagaaaat	caatttggat	tgacatcgag	ctttgcggca	1260
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gctggtgtgt	ctgaatcata	taatggaaca	ggagagatgg	ggaatctgac	tgcaccttgc	1500
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cagtattttt	ctccctgctt	tgcaggttgt	ttaaactcag	tttcaaacag	gaaaccaaag	1620
gcatattata	attgttcctg	tattgaaagg	aaagtcgaca	tcacttctac	tgcagaaagc	1680
cctgattttg	aagcaagggc	tggaaaatgt	aaaactcagt	gttcaaacct	gccccatatt	1740
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tccatattaa	ggtgtgtcaa	tcacagacag	cgatctctag	cactgggagt	gcagttcatg	1860
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acgtgtgttc	tgtgggacat	caatgaatgt	ggaacaaagg	gggcgtgttg	gatctatgat	1980
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ttcttcaatg	gacttgcgat	agttctctat	aaaccaccgc	cccaggaac	ggaggtatca	2100
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<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 82

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30

<210> 83

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<213> Artificial Sequence

<220>

<223> Primer

<400> 83

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<211> 18

<212> DNA

<213> Artificial Sequence

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18

<210> 85

<211> 722

<212> PRT

<213> Homo sapiens

<400> 85

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			20					25					30		
Ala	Ser	Pro	Gly	Thr	Pro	Leu	Ser	Pro	Gly	Ser	Leu	Arg	Ser	Ala	Ala
		35					40					45			
His	Ser	Pro	Leu	Asp	Thr	Ser	Lys	Gln	Pro	Leu	Cys	Gln	Leu	Trp	Ala
	50					55					60				
Glu	Lys	His	Gly	Ala	Arg	Gly	Thr	His	Glu	Val	Arg	Tyr	Val	Ser	Ala
65				70					75					80	
Gly	Gln	Ser	Val	Ala	Cys	Gly	Trp	Trp	Ala	Phe	Ala	Pro	Pro	Cys	Leu
				85					90					95	
Gln	Val	Leu	Asn	Thr	Pro	Lys	Gly	Ile	Leu	Phe	Phe	Leu	Cys	Ala	Ala
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Ala	Phe	Leu	Gln	Gly	Met	Thr	Val	Asn	Gly	Phe	Ile	Asn	Thr	Val	Ile
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Thr	Ser	Leu	Glu	Arg	Arg	Tyr	Asp	Leu	His	Ser	Tyr	Gln	Ser	Gly	Leu
	130					135					140				
Ile	Ala	Ser	Ser	Tyr	Asp	Ile	Ala	Ala	Cys	Leu	Cys	Leu	Thr	Phe	Val
145					150				155						160
Ser	Tyr	Phe	Gly	Gly	Ser	Gly	His	Lys	Pro	Arg	Trp	Leu	Gly	Trp	Gly
			165						170					175	
Val	Leu	Leu	Met	Gly	Thr	Gly	Ser	Leu	Val	Phe	Ala	Leu	Pro	His	Phe
			180					185					190		
Thr	Ala	Gly	Arg	Tyr	Glu	Val	Glu	Leu	Asp	Ala	Gly	Val	Arg	Thr	Cys
	195						200					205			
Pro	Ala	Asn	Pro	Gly	Ala	Val	Cys	Ala	Asp	Ser	Thr	Ser	Gly	Leu	Ser
	210					215					220				
Arg	Tyr	Gln	Leu	Val	Phe	Met	Leu	Gly	Gln	Phe	Leu	His	Gly	Val	Gly
225					230					235					240
Ala	Thr	Pro	Leu	Tyr	Thr	Leu	Gly	Val	Thr	Tyr	Leu	Asp	Glu	Asn	Val
			245						250					255	
Lys	Ser	Ser	Cys	Ser	Pro	Val	Tyr	Ile	Ala	Ile	Phe	Tyr	Thr	Ala	Ala
			260					265					270		
Ile	Leu	Gly	Pro	Ala	Ala	Gly	Tyr	Leu	Ile	Gly	Gly	Ala	Leu	Leu	Asn
	275						280					285			
Ile	Tyr	Thr	Glu	Met	Gly	Arg	Thr	Glu	Leu	Thr	Thr	Glu	Ser	Pro	
	290					295					300				
Leu	Trp	Val	Gly	Ala	Trp	Trp	Val	Gly	Phe	Leu	Gly	Ser	Gly	Ala	Ala
305					310				315						320
Ala	Phe	Phe	Thr	Ala	Val	Pro	Ile	Leu	Gly	Tyr	Pro	Arg	Gln	Leu	Pro
			325						330					335	
Gly	Ser	Gln	Arg	Tyr	Ala	Val	Met	Arg	Ala	Ala	Glu	Met	His	Gln	Leu
			340					345					350		
Lys	Asp	Ser	Ser	Arg	Gly	Glu	Ala	Ser	Asn	Pro	Asp	Phe	Gly	Lys	Thr
	355						360					365			
Ile	Arg	Asp	Leu	Pro	Leu	Ser	Ile	Trp	Leu	Leu	Leu	Lys	Asn	Pro	Thr
	370					375					380				
Phe	Ile	Leu	Leu	Cys	Leu	Ala	Gly	Ala	Thr	Glu	Ala	Thr	Leu	Ile	Thr
385					390					395					400
Gly	Met	Ser	Thr	Phe	Ser	Pro	Lys	Phe	Leu	Glu	Ser	Gln	Phe	Ser	Leu
			405						410					415	
Ser	Ala	Ser	Glu	Ala	Ala	Thr	Leu	Phe	Gly	Tyr	Leu	Val	Val	Pro	Ala
			420					425					430		
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		435					440					445			
Leu	Arg	Gly	Ser	Ala	Val	Ile	Lys	Phe	Cys	Leu	Phe	Cys	Thr	Val	Val
	450					455					460				
Ser	Leu	Leu	Gly	Ile	Leu	Val	Phe	Ser	Leu	His	Cys	Pro	Ser	Val	Pro
465					470					475					480

Met	Ala	Gly	Val	Thr	Ala	Ser	Tyr	Gly	Gly	Ser	Leu	Leu	Pro	Glu	Gly
				485					490					495	
His	Leu	Asn	Leu	Thr	Ala	Pro	Cys	Asn	Ala	Ala	Cys	Ser	Cys	Gln	Pro
			500					505					510		
Glu	His	Tyr	Ser	Pro	Val	Cys	Gly	Ser	Asp	Gly	Leu	Met	Tyr	Phe	Ser
		515					520					525			
Leu	Cys	His	Ala	Gly	Cys	Pro	Ala	Ala	Thr	Glu	Thr	Asn	Val	Asp	Gly
	530					535					540				
Gln	Lys	Val	Tyr	Arg	Asp	Cys	Ser	Cys	Ile	Pro	Gln	Asn	Leu	Ser	Ser
545					550					555					560
Gly	Phe	Gly	His	Ala	Thr	Ala	Gly	Lys	Cys	Thr	Ser	Thr	Cys	Gln	Arg
			565						570					575	
Lys	Pro	Leu	Leu	Leu	Val	Phe	Ile	Phe	Val	Val	Ile	Phe	Phe	Thr	Phe
			580					585					590		
Leu	Ser	Ser	Ile	Pro	Ala	Leu	Thr	Ala	Thr	Leu	Arg	Cys	Val	Arg	Asp
		595					600					605			
Pro	Gln	Arg	Ser	Phe	Ala	Leu	Gly	Ile	Gln	Trp	Ile	Val	Val	Arg	Ile
	610					615					620				
Leu	Gly	Gly	Ile	Pro	Gly	Pro	Ile	Ala	Phe	Gly	Trp	Val	Ile	Asp	Lys
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Ala	Cys	Leu	Leu	Trp	Gln	Asp	Gln	Cys	Gly	Gln	Gln	Gly	Ser	Cys	Leu
				645					650					655	
Val	Tyr	Gln	Asn	Ser	Ala	Met	Ser	Arg	Tyr	Ile	Leu	Ile	Met	Gly	Leu
			660					665					670		
Leu	Tyr	Lys	Val	Leu	Gly	Val	Leu	Phe	Phe	Ala	Ile	Ala	Cys	Phe	Leu
		675					680					685			
Tyr	Lys	Pro	Leu	Ser	Glu	Ser	Ser	Asp	Gly	Leu	Glu	Thr	Cys	Leu	Pro
	690					695					700				
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<210> 86
 <211> 848
 <212> PRT
 <213> Homo sapiens

<400> 86

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			20					25					30		
Leu	Arg	Ser	Lys	Ser	Leu	Pro	Val	Leu	Ser	Ser	Ala	Ser	Cys	Arg	Pro
		35					40					45			
Ser	Leu	Ser	Pro	Thr	Ser	Gly	Asp	Ala	Asn	Pro	Ala	Phe	Gly	Cys	Val
	50					55					60				
Asp	Ser	Ser	Gly	His	Gln	Glu	Leu	Lys	Gln	Gly	Pro	Asn	Pro	Leu	Ala
65				70					75					80	
Pro	Ser	Pro	Ser	Ala	Pro	Ser	Thr	Ser	Ala	Gly	Leu	Gly	Asp	Cys	Asn
				85					90				95		
His	Arg	Val	Asp	Leu	Ser	Lys	Thr	Phe	Ser	Val	Ser	Ser	Ala	Leu	Ala
			100					105					110		
Met	Leu	Gln	Glu	Arg	Arg	Cys	Leu	Tyr	Val	Val	Leu	Thr	Asp	Ser	Arg
		115					120					125			
Cys	Phe	Leu	Val	Cys	Met	Cys	Phe	Leu	Thr	Phe	Ile	Gln	Ala	Leu	Met
	130					135					140				
Val	Ser	Gly	Tyr	Leu	Ser	Ser	Val	Ile	Thr	Thr	Ile	Glu	Arg	Arg	Tyr
145					150					155					160
Ser	Leu	Lys	Ser	Ser	Glu	Ser	Gly	Leu	Leu	Val	Ser	Cys	Phe	Asp	Ile
				165					170					175	
Gly	Asn	Leu	Val	Val	Val	Val	Phe	Val	Ser	Tyr	Phe	Gly	Gly	Arg	Gly
			180					185					190		
Arg	Arg	Pro	Leu	Trp	Leu	Ala	Val	Gly	Gly	Leu	Leu	Ile	Ala	Phe	Gly

		195				200				205				
Ala	Ala	Leu	Phe	Ala	Leu	Pro	His	Phe	Ile	Ser	Pro	Pro	Tyr	Gln
	210					215					220			
Gln	Glu	Leu	Asn	Ala	Ser	Ala	Pro	Asn	Asp	Gly	Leu	Cys	Gln	Gly
225					230					235				240
Asn	Ser	Thr	Ala	Thr	Leu	Glu	Pro	Pro	Ala	Cys	Pro	Lys	Asp	Ser
			245						250					255
Gly	Asn	Asn	His	Trp	Val	Tyr	Leu	Ala	Leu	Phe	Ile	Cys	Ala	Gln
			260					265					270	
Leu	Ile	Gly	Met	Gly	Ser	Thr	Pro	Ile	Tyr	Thr	Leu	Gly	Pro	Thr
		275					280					285		
Leu	Asp	Asp	Asn	Val	Lys	Lys	Glu	Asn	Ser	Ser	Leu	Tyr	Leu	Ala
	290					295					300			
Met	Tyr	Val	Met	Gly	Ala	Leu	Gly	Pro	Ala	Val	Gly	Tyr	Leu	Leu
305					310					315				320
Gly	Leu	Leu	Ile	Gly	Phe	Tyr	Val	Asp	Pro	Arg	Asn	Pro	Val	His
			325						330					335
Asp	Gln	Asn	Asp	Pro	Arg	Phe	Ile	Gly	Asn	Trp	Trp	Ser	Gly	Phe
			340					345					350	
Leu	Cys	Ala	Ile	Ala	Met	Phe	Leu	Val	Ile	Phe	Pro	Met	Phe	Thr
		355					360					365		
Pro	Lys	Lys	Leu	Pro	Pro	Arg	His	Lys	Lys	Lys	Lys	Lys	Lys	Lys
	370					375					380			
Ser	Val	Asp	Ala	Val	Ser	Asp	Asp	Asp	Val	Leu	Lys	Glu	Lys	Ser
385					390					395				400
Asn	Ser	Glu	Gln	Ala	Asp	Lys	Lys	Val	Ser	Ser	Met	Gly	Phe	Gly
			405						410					415
Asp	Val	Arg	Asp	Leu	Pro	Arg	Ala	Ala	Val	Arg	Ile	Leu	Ser	Asn
			420					425					430	
Thr	Phe	Leu	Phe	Val	Ser	Leu	Ser	Tyr	Thr	Ala	Glu	Ser	Ala	Ile
	435					440					445			
Thr	Ala	Phe	Ile	Thr	Phe	Ile	Pro	Lys	Phe	Ile	Glu	Ser	Gln	Phe
	450					455					460			
Ile	Pro	Ala	Ser	Asn	Ala	Ser	Ile	Tyr	Thr	Gly	Val	Ile	Ile	Val
465					470					475				480
Ser	Ala	Gly	Val	Gly	Ile	Val	Leu	Gly	Gly	Tyr	Ile	Ile	Lys	Lys
			485						490					495
Lys	Leu	Gly	Ala	Arg	Glu	Ser	Ala	Lys	Leu	Ala	Met	Ile	Cys	Ser
			500					505					510	
Val	Ser	Leu	Leu	Cys	Phe	Ser	Thr	Leu	Phe	Ile	Val	Gly	Cys	Glu
		515					520					525		
Ile	Asn	Leu	Gly	Gly	Ile	Asn	Ile	Pro	Tyr	Thr	Thr	Gly	Pro	Ser
	530					535					540			
Thr	Met	Pro	His	Arg	Asn	Leu	Thr	Gly	Ser	Cys	Asn	Val	Asn	Cys
545					550					555				560
Cys	Lys	Ile	His	Glu	Tyr	Glu	Pro	Val	Cys	Gly	Ser	Asp	Gly	Ile
			565						570					575
Tyr	Phe	Asn	Pro	Cys	Leu	Ala	Gly	Cys	Val	Asn	Ser	Gly	Asn	Leu
		580						585					590	
Thr	Gly	Ile	Arg	Asn	Tyr	Thr	Glu	Cys	Thr	Cys	Val	Gln	Ser	Arg
		595					600					605		
Val	Ile	Thr	Pro	Pro	Thr	Val	Gly	Gln	Arg	Ser	Gln	Leu	Arg	Val
	610					615					620			
Ile	Val	Lys	Thr	Tyr	Leu	Asn	Glu	Asn	Gly	Tyr	Ala	Val	Ser	Gly
625					630					635				640
Cys	Lys	Arg	Thr	Cys	Asn	Thr	Leu	Ile	Pro	Phe	Leu	Val	Phe	Leu
			645						650					655
Ile	Val	Thr	Phe	Ile	Thr	Ala	Cys	Ala	Gln	Pro	Ser	Ala	Ile	Ile
		660						665					670	
Thr	Leu	Arg	Ser	Val	Glu	Asp	Glu	Glu	Arg	Pro	Phe	Ala	Leu	Gly
	675						680					685		
Gln	Phe	Val	Leu	Leu	Arg	Thr	Leu	Ala	Tyr	Ile	Pro	Thr	Pro	Ile
	690					695					700			
Phe	Gly	Ala	Val	Ile	Asp	Thr	Thr	Cys	Met	Leu	Trp	Gln	Gln	Glu

705					710					715					720
Gly	val	Gln	Gly	Ser	Cys	Trp	Glu	Tyr	Asn	Val	Thr	Ser	Phe	Arg	Phe
				725					730					735	
val	Tyr	Phe	Gly	Leu	Ala	Ala	Gly	Leu	Lys	Phe	Val	Gly	Phe	Ile	Phe
			740					745					750		
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		755					760					765			
Arg	Arg	Arg	Gln	Arg	Glu	Phe	Pro	Leu	Ser	Thr	Val	Ser	Glu	Arg	Val
	770					775					780				
Gly	His	Pro	Asp	Asn	Ala	Arg	Thr	Arg	Ser	Cys	Pro	Ala	Phe	Ser	Thr
785					790					795					800
Gln	Gly	Glu	Phe	His	Glu	Glu	Thr	Gly	Leu	Gln	Lys	Gly	Ile	Gln	Cys
				805					810					815	
Ala	Ala	Gln	Thr	Tyr	Pro	Gly	Pro	Phe	Pro	Glu	Ala	Ile	Ser	Ser	Ser
			820					825					830		
Ala	Asp	Pro	Gly	Leu	Glu	Glu	Ser	Pro	Ala	Ala	Leu	Glu	Pro	Pro	Ser
		835					840					845			